General Information			
Academic subject	Honey bee product	ts	
Degree course	Master programme	e: Food Science and Technology	
ECTS credits	3		
Compulsory attendance	No		
Teaching language	Italian	Italian	
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Subjectteacher	Name Surname	Mail address	SSD
	Rocco Addante	rocco.addante@uniba.it	AGR/11
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ECTS credits details			
Basic teaching activities	2 ECTS Lectures	2 ECTS Lectures 1 ECTS Laboratory or field class	

Class schedule	
Period	I semester
Course year	Second
Type of class	Lectures, laboratory classes

Time management	
Hours	75
In-class study hours	30
Out-of-class study hours	45

Academiccalendar	
Class begins	September 27 th , 2021
Class ends	January 21 th , 2022

6.11.1	
Syllabus	
Prerequisites/requirements	In order to follow the didactic module, the student must have
	knowledge of general zoology and entomology.
Expected learning outcomes	Knowledge and understanding
	 Knowledge of production techniques, characteristics of hive products and criteria for enhancing them.
	Applying knowledge and understanding
	 Ability to associate the characteristics of the hive products
	to the production areas.
	 Ability to produce and market hive products in compliance
	with current legislation.
	Making informed judgements and choices
	 Ability to propose production methods suited to specific
	company needs and to enhance the products of the hive.
	Communicating knowledge and understanding
	 Ability to communicate theoretical and practical knowledge
	on hive products by effectively discussing them with the interlocutors.
	Capacities to continue learning
	 Ability to keep knowledge of beehive products constantly updated and to intercept new inputs from the world of production and the market to promote qualitative and quantitative improvements to companies in the sector.
	The expected learning outcomes, in terms of both knowledge and
	skills, are provided in Annex A of the Academic Regulations of the
	Degree in Food Science and Technology (expressed through the European Descriptors of the qualification)
Contents	o The module is aimed at providing knowledge on:
	- essential elements of honey bee bio-ethology and ecology;

	than those dealt with in class.
	 Demonstration of having assimilated the concepts exposed on the products of the hive by applying them to cases other
	Capacities to continue learning
	arguments concerning the products of honey bees.
	 Ability to discuss in a clear, correct and convincing way the
	Communicating knowledge and understanding
	inherent to honey bee products.
	Making informed judgements and choicesAbility to propose and argue possible solutions to problems
	to concrete cases of the honey bee product chain.
	Ability to apply the knowledge acquired during the lessons
	Applying knowledge and understanding
	during the lessons, adequately motivating the answers.
	Ability to clearly and correctly explain the topics covered
Evaluation criteria	Knowledge and understanding
	to the aforesaid procedures.
	Non-Italian students may be examined in English language, according
	Regulations for the Master Degree in Food Science and Technology.
	The evaluation of the preparation of the student occurs on the basis of established criteria, as detailed in Annex B of the Academic
	considered valid for a year.
	of the program, which will concur to the final evaluation and will be
	preliminary exam, consisting of a written test, relative to the first part
	Students attending at the lectures may have a middle-term
	Technology (article 9) and in the study plan (Annex A).
	Academic Regulations for the Master Degree in Food Science and
	during the theoretical and theoretical-practical lectures in the classroom and in the laboratory/production plants, as reported in the
Evaluation methods	The exam consists of an oral dissertation on the topics developed
	students on the Microsoft Teams platform.
	All the material used for the lessons will be made available to
	discussed.
Teaching methods	The topics of the course will be treated with the help of Power Point presentations, classroom and laboratory exercises. Case study will be
Notes Teaching methods	The tenics of the course will be treated with the help of Dawer Beint
	Edagricole, Bologna: 497 pp.
	2004. Le Api. Biologia, allevamento, prodotti (terza edizione).
	• Contessi A., 2004. Le Api. Biologia, allevamento, prodotti (terza edizione). Edagricole, Bologna: 497 pp.Contessi A.,
	For further information:
	Edagricole-New Business Media, Milano, 196 pp.
	Bortolotti L., Mazzacan G.L., 2017. I prodotti dell'alveare.
Course program Reference books	Lecture notes and educational supplies provided during the course
Course program	discover the diversity and quality of honeys.
	sensory, chemical-physical and melissopalinological analyzes, to
	- The practical activities will mainly aim to guide the student, through
	- notes on beekeeping legislation.
	- criteria for enhancing the honey bee products (honey, royal jelly, propolis, etc.);
	- equipment and operation of a honey house;
	products;